

Amendments to the Claims

This listing of claims will replace all prior versions and listing of claims in this application.

Listing of claims:

1. (Currently Amended) A blend comprising:

about 20 wt% to about 60 wt% of an impact copolymer;

about 300 to about 4000 ppm ~~by weight~~ of a clarifying agent; and

a random copolymer comprising a balance of said blend, wherein the blend, when formed into a resin and extruded into an about 22 mil thick sheet, has a Haze of less than about 77% and an Energy to Maximum Load/Energy After Maximum Load ratio of at least about 1.6 at about -29 °C.
2. (Canceled)
3. (Original) The blend as recited in Claim 1 wherein said blend, when formed into a resin and extruded into a about 22 mil thick sheet, has a Haze of less than about 64% and a Energy to Maximum Load / Energy After Maximum Load ratio of at least about 4 at about -29°C.
4. (Currently Amended) The blend as recited in Claim 1 wherein said blend comprises about 30 wt% to about 50 wt% of said impact copolymer, about 1700 and 2300 ppm ~~by weight~~ of said clarifying agent, and balance said random copolymer.
5. (Currently Amended) The blend as recited in Claim 1 wherein said blend comprises about 30 wt% of said impact copolymer, about 300 to about 4000 ppm ~~by weight~~ of said clarifying agent, and balance of said random copolymer.

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6. (Original) The blend as recited in Claim 1 wherein said impact copolymer is nucleator free, has a melt flow between about 0.1 g/10 min and about 5 g/min and has a crystalline composition comprising a homopolymer, or copolymer containing less than about 5 wt% of a comonomer, and an amorphous rubber composition comprising about 7 to about 22 weight% of said impact copolymer, said amorphous rubber having an ethylene:propylene component ratio between about 30:70 to about 50:50 by weight.

7. (Original) The blend as recited in Claim 1 wherein said random copolymer has a melt flow between about 0.1 g/10 min and about 10 g/min and comprises a propylene copolymer containing ethylene groups randomly inserted between propylene groups, said ethylene groups comprising from about 0.2 wt% to about 4 wt% of said random copolymer.

8. (Currently Amended) The blend as recited in Claim 1 wherein said clarifying agent is a dibenzylidene sorbitol containing a ~~substituant~~ substituent having 20 carbons or less selected from the group consisting of:

alkyl;

alkoxy; and

halogen.

9. (Original) The blend as recited in Claim 1 wherein said random copolymer is a metallocene catalyzed ethylene propylene copolymer.

10. (Original) The blend as recited in Claim 9 wherein said metallocene catalyzed ethylene propylene copolymer and ethylene comprises from about 0.15% to about 4.0% weight percent of said metallocene catalyzed ethylene propylene copolymer.

11. (Original) The blend as recited in Claim 1 wherein said impact copolymer is a metallocene catalyzed impact copolymer.
12. (Currently Amended) A process for forming a resin comprising:
providing a blend comprising:
about 20 wt% to about 60 wt% of an impact copolymer;
about 300 to about 4000 ppm ~~by weight~~ of a clarifying agent; and
an ethylene-propylene random copolymer comprising a balance of said blend, wherein the blend, when formed into a resin and extruded into an about 22 mil thick sheet, has a Haze of less than about 77% and an Energy to Maximum Load/Energy After Maximum Load ratio of at least about 1.6 at about -29 °C.
13. (Original) The process as recited in Claim 12, further including melting, mixing said blend to form a resin and pumping said blend to form a sheet or parison comprising said resin.
14. (Original) The process as recited in Claim 12 wherein said blend comprises said impact copolymer and a clarified random copolymer comprising said random copolymer containing said clarifying agent.
15. (Currently Amended) The process as recited in Claim ~~14~~ 13 wherein said mixing further includes ~~adding~~ adjusting said clarifying agent sufficient to provide a concentration of between about 1700 and 2300 ppm ~~by weight~~.

16. (Original) The process as recited in Claim 13 wherein said melting comprises heating said blend to a temperature of between 176°C and about 238°C.

17. (Original) The process as recited in Claim 13 wherein said forming said sheet comprises heating said resin to a temperature of between about 176°C and about 238°C and extruding said resin.

18. (Original) The process as recited in Claim 12 wherein providing a blend includes providing a blend wherein said random copolymer is a metallocene catalyzed ethylene propylene copolymer.

19. (Original) The blend as recited in Claim 18 wherein ethylene comprises from about 0.15% to about 4.0% weight percent of said metallocene catalyzed ethylene propylene copolymer.

20. (Original) The process as recited in Claim 12 wherein providing a blend includes providing a blend wherein said impact copolymer is a metallocene catalyzed impact copolymer.

21. (Currently Amended) A method for preparing an article of manufacture comprising:

preparing a resin comprising a blend of:

about 20 wt% to about 60 wt% of an impact copolymer;

about 300 to about 4000 ppm ~~by weight~~ of a clarifying agent; and

a random copolymer comprising a balance of said blend, wherein the blend, when formed into a resin and extruded into an about 22 mil thick sheet, has

a Haze of less than about 77% and an Energy to Maximum Load/Energy After Maximum Load ratio of at least about 1.6 at about -29 °C; and

forming an article comprising said resin.

22. (Original) The method as recited in Claim 21 wherein said forming comprising a fabrication process selected from the group consisting of:

injection molding;

blow molding; and

extrusion.

23. (Original) The method as recited in Claim 21 wherein said article formed is a lid or a container used in low temperature packaging applications.

24. (Original) The method as recited in Claim 21 wherein preparing a resin includes preparing a resin wherein said random copolymer is a metallocene catalyzed ethylene propylene copolymer.

25. (Original) The blend as recited in Claim 24 wherein ethylene comprises from about 0.15% to about 4.0% weight percent of said metallocene catalyzed ethylene propylene copolymer.

26. (Original) The method as recited in Claim 21 wherein preparing a resin includes preparing a resin wherein said impact copolymer is a metallocene catalyzed impact copolymer.

27. (Currently Amended) An article of manufacture comprising:

a resin comprising a blend of:

about 20 wt% to about 60 wt% of an impact copolymer;

about 300 to about 4000 ppm by weight of a clarifying agent; and

a random copolymer comprising a balance of said blend, wherein the blend, when formed into a resin and extruded into an about 22 mil thick sheet, has a Haze of less than about 77% and an Energy to Maximum Load/Energy After Maximum Load ratio of at least about 1.6 at about -29 °C.

28. (Original) The article as recited in Claim 27 wherein said article has a Notched Izod of at least about 64 J/m at 23°C.

29. (Original) The article as recited in Claim 27 wherein said article has a Notched Izod of at least about 138 J/m at 23°C.

30. (Original) The article as recited in Claim 27 wherein said article has a Gardner Mean Failure Energy of at least about 7.9 J at 23°C.

31. (New) A blend comprising:

about 20 wt% to about 60 wt% of an impact copolymer;

about 300 to about 4000 ppm of a clarifying agent; and

a random copolymer, comprising from about 0.15 wt% to about 4.0 wt% ethylene, comprising a balance of said blend.

32. (New) A process for forming a resin comprising:

providing a blend comprising:

about 20 wt% to about 60 wt% of an impact copolymer;

about 300 to about 4000 ppm of a clarifying agent; and

an ethylene-propylene random copolymer, comprising from about 0.15 wt% to about 4.0 wt% ethylene, comprising a balance of said blend.

33. (New) A method for preparing an article of manufacture comprising:

preparing a resin comprising a blend of:

about 20 wt% to about 60 wt% of an impact copolymer;

about 300 to about 4000 ppm of a clarifying agent; and

a random copolymer, comprising from about 0.15 wt% to about 4.0 wt% ethylene, comprising a balance of said blend; and

forming an article comprising said resin.

34. (New) An article of manufacture comprising:

a resin comprising a blend of:

about 20 wt% to about 60 wt% of an impact copolymer;

about 300 to about 4000 ppm of a clarifying agent; and

a random copolymer, comprising from about 0.15 wt% to about 4.0 wt% ethylene, comprising a balance of said blend.